

SEQUENCE LISTING

<110> TAKEDA PHARMACEUTICAL COMPANY LIMITED

<120> RECEPTOR REGULATOR

<130> 3116WOOP

<150> JP 2002-322534

<151> 2002-11-06

<160> 3

<210> 1

<211> 403

<212> PRT

<213> Human

<400> 1

Met Ala Cys Asn Gly Ser Ala Ala Arg Gly His Phe Asp Pro Glu Asp

1 5 10 15

Leu Asn Leu Thr Asp Glu Ala Leu Arg Leu Lys Tyr Leu Gly Pro Gln

20 25 30

Gln Thr Glu Leu Phe Met Pro Ile Cys Ala Thr Tyr Leu Leu Ile Phe

35 40 45

Val Val Gly Ala Val Gly Asn Gly Leu Thr Cys Leu Val Ile Leu Arg

50 55 60

His Lys Ala Met Arg Thr Pro Thr Asn Tyr Tyr Leu Phe Ser Leu Ala

65 70 75 80

Val Ser Asp Leu Leu Val Leu Leu Val Gly Leu Pro Leu Glu Leu Tyr

85 90 95

Glu Met Trp His Asn Tyr Pro Phe Leu Leu Gly Val Gly Gly Cys Tyr

100 105 110

Phe Arg Thr Leu Leu Phe Glu Met Val Cys Leu Ala Ser Val Leu Asn

115	120	125
Val Thr Ala Leu Ser Val Glu Arg Tyr Val Ala Val Val His Pro Leu		
130	135	140
Gln Ala Arg Ser Met Val Thr Arg Ala His Val Arg Arg Val Leu Gly		
145	150	155
Ala Val Trp Gly Leu Ala Met Leu Cys Ser Leu Pro Asn Thr Ser Leu		
165	170	175
His Gly Ile Arg Gln Leu His Val Pro Cys Arg Gly Pro Val Pro Asp		
180	185	190
Ser Ala Val Cys Met Leu Val Arg Pro Arg Ala Leu Tyr Asn Met Val		
195	200	205
Val Gln Thr Thr Ala Leu Leu Phe Phe Cys Leu Pro Met Ala Ile Met		
210	215	220
Ser Val Leu Tyr Leu Leu Ile Gly Leu Arg Leu Arg Arg Glu Arg Leu		
225	230	235
Leu Leu Met Gln Glu Ala Lys Gly Arg Gly Ser Ala Ala Ala Arg Ser		
245	250	255
Arg Tyr Thr Cys Arg Leu Gln Gln His Asp Arg Gly Arg Arg Gln Val		
260	265	270
Thr Lys Met Leu Phe Val Leu Val Val Val Phe Gly Ile Cys Trp Ala		
275	280	285
Pro Phe His Ala Asp Arg Val Met Trp Ser Val Val Ser Gln Trp Thr		
290	295	300
Asp Gly Leu His Leu Ala Phe Gln His Val His Val Ile Ser Gly Ile		
305	310	315
Phe Phe Tyr Leu Gly Ser Ala Ala Asn Pro Val Leu Tyr Ser Leu Met		
325	330	335

Ser Ser Arg Phe Arg Glu Thr Phe Gln Glu Ala Leu Cys Leu Gly Ala

340

345

350

Cys Cys His Arg Leu Arg Pro Arg His Ser Ser His Ser Leu Ser Arg

355

360

365

Met Thr Thr Gly Ser Thr Leu Cys Asp Val Gly Ser Leu Gly Ser Trp

370

375

380

Val His Pro Leu Ala Gly Asn Asp Gly Pro Glu Ala Gln Gln Glu Thr

385

390

395

400

Asp Pro Ser

403

<210> 2

<211> 405

<212> PRT

<213> Mouse

<400> 2

Met Val Cys Asn Ile Ser Glu Phe Lys Trp Pro Tyr Gln Pro Glu Asp

5

10

15

Leu Asn Leu Thr Asp Glu Ala Leu Arg Leu Lys Tyr Leu Gly Pro Gln

20

25

30

Gln Met Lys Gln Phe Val Pro Ile Cys Val Thr Tyr Leu Leu Ile Phe

35

40

45

Val Val Gly Thr Leu Gly Asn Gly Leu Thr Cys Thr Val Ile Leu Arg

50

55

60

Asn Lys Thr Met Arg Thr Pro Thr Asn Phe Tyr Leu Phe Ser Leu Ala

65

70

75

80

Val Ser Asp Met Leu Val Leu Leu Val Gly Leu Pro Leu Glu Leu Tyr

85

90

95

Glu Met Gln Gln Asn Tyr Pro Phe Gln Leu Gly Ala Ser Ala Cys Tyr
 100 105 110
 Phe Arg Ile Leu Leu Leu Glu Thr Val Cys Leu Ala Ser Val Leu Asn
 115 120 125
 Val Thr Ala Leu Ser Val Glu Arg Tyr Val Ala Val Val Arg Pro Leu
 130 135 140
 Gln Ala Lys Ser Val Met Thr Arg Ala His Val Arg Arg Met Val Gly
 145 150 155 160
 Ala Ile Trp Val Leu Ala Thr Leu Phe Ser Leu Pro Asn Thr Ser Leu
 165 170 175
 His Gly Leu Ser Gln Leu Thr Val Pro Cys Arg Gly Pro Val Pro Asp
 180 185 190
 Ser Ala Ile Cys Ser Leu Val Gly Pro Met Asp Phe Tyr Lys Leu Val
 195 200 205
 Val Leu Thr Thr Ala Leu Leu Phe Phe Cys Leu Pro Met Val Thr Ile
 210 215 220
 Ser Val Leu Tyr Leu Leu Ile Gly Leu Arg Leu Arg Arg Glu Arg Met
 225 230 235 240
 Leu Leu Gln Val Glu Val Lys Gly Arg Lys Thr Ala Ala Thr Gln Glu
 245 250 255
 Thr Ser His Arg Arg Ile Gln Leu Gln Asp Arg Gly Arg Arg Gln Val
 260 265 270
 Thr Lys Met Leu Phe Ala Leu Val Val Val Phe Gly Ile Cys Trp Ala
 275 280 285
 Pro Phe His Ala Asp Arg Ile Met Trp Ser Leu Val Tyr Gly His Ser
 290 295 300
 Thr Glu Gly Leu His Leu Ala Tyr Gln Cys Val His Ile Ala Ser Gly

305 310 315 320
 Ile Phe Phe Tyr Leu Gly Ser Ala Ala Asn Pro Val Leu Tyr Ser Leu
 325 330 335
 Met Ser Thr Arg Phe Arg Glu Thr Phe Leu Gln Ala Leu Gly Leu Gly
 340 345 350
 Thr Gln Cys Cys His Arg Arg Gln Pro Tyr His Gly Ser His Asn His
 355 360 365
 Ile Arg Leu Thr Thr Gly Ser Thr Leu Cys Asp Val Gly His Arg Asn
 370 375 380
 Ser Arg Asp Glu Pro Leu Ala Val Asn Glu Asp Pro Gly Cys Gln Gln
 385 390 395 400
 Glu Thr Asp Pro Ser

405

<210> 3

<211> 415

<212> PRT

<213> Human

<400> 3

Met Ser Gly Met Glu Lys Leu Gln Asn Ala Ser Trp Ile Tyr Gln Gln
 1 5 10 15
 Lys Leu Glu Asp Pro Phe Gln Lys His Leu Asn Ser Thr Glu Glu Tyr
 20 25 30
 Leu Ala Phe Leu Cys Gly Pro Arg Arg Ser His Phe Phe Leu Pro Val
 35 40 45
 Ser Val Val Tyr Val Pro Ile Phe Val Val Gly Val Ile Gly Asn Val
 50 55 60
 Leu Val Cys Leu Val Ile Leu Gln His Gln Ala Met Lys Thr Pro Thr

65		70		75		80									
Asn	Tyr	Tyr	Leu	Phe	Ser	Leu	Ala	Val	Ser	Asp	Leu	Leu	Val	Leu	Leu
		85				90						95			
Leu	Gly	Met	Pro	Leu	Glu	Val	Tyr	Glu	Met	Trp	Arg	Asn	Tyr	Pro	Phe
		100					105					110			
Leu	Phe	Gly	Pro	Val	Gly	Cys	Tyr	Phe	Lys	Thr	Ala	Leu	Phe	Glu	Thr
		115					120					125			
Val	Cys	Phe	Ala	Ser	Ile	Leu	Ser	Ile	Thr	Thr	Val	Ser	Val	Glu	Arg
		130					135					140			
Tyr	Val	Ala	Ile	Leu	His	Pro	Phe	Arg	Ala	Lys	Leu	Gln	Ser	Thr	Arg
145				150						155				160	
Arg	Arg	Ala	Leu	Arg	Ile	Leu	Gly	Ile	Val	Trp	Gly	Phe	Ser	Val	Leu
				165						170				175	
Phe	Ser	Leu	Pro	Asn	Thr	Ser	Ile	His	Gly	Ile	Lys	Phe	His	Tyr	Phe
		180								185				190	
Pro	Asn	Gly	Ser	Leu	Val	Pro	Gly	Ser	Ala	Thr	Cys	Thr	Val	Ile	Lys
		195						200						205	
Pro	Met	Trp	Ile	Tyr	Asn	Phe	Ile	Ile	Gln	Val	Thr	Ser	Phe	Leu	Phe
		210					215							220	
Tyr	Leu	Leu	Pro	Met	Thr	Val	Ile	Ser	Val	Leu	Tyr	Tyr	Leu	Met	Ala
225				230						235				240	
Leu	Arg	Leu	Lys	Lys	Asp	Lys	Ser	Leu	Glu	Ala	Asp	Glu	Gly	Asn	Ala
				245						250				255	
Asn	Ile	Gln	Arg	Pro	Cys	Arg	Lys	Ser	Val	Asn	Lys	Met	Leu	Phe	Val
		260								265				270	
Leu	Val	Leu	Val	Phe	Ala	Ile	Cys	Trp	Ala	Pro	Phe	His	Ile	Asp	Arg
		275								280				285	

Leu Phe Phe Ser Phe Val Glu Glu Trp Ser Glu Ser Leu Ala Ala Val
 290 295 300
 Phe Asn Leu Val His Val Val Ser Gly Val Phe Phe Tyr Leu Ser Ser
 305 310 315 320
 Ala Val Asn Pro Ile Ile Tyr Asn Leu Leu Ser Arg Arg Phe Gln Ala
 325 330 335
 Ala Phe Gln Asn Val Ile Ser Ser Phe His Lys Gln Trp His Ser Gln
 340 345 350
 His Asp Pro Gln Leu Pro Pro Ala Gln Arg Asn Ile Phe Leu Thr Glu
 355 360 365
 Cys His Phe Val Glu Leu Thr Glu Asp Ile Gly Pro Gln Phe Pro Cys
 370 375 380
 Gln Ser Ser Met His Asn Ser His Leu Pro Thr Ala Leu Ser Ser Glu
 385 390 395 400
 Gln Met Ser Arg Thr Asn Tyr Gln Ser Phe His Phe Asn Lys Thr
 405 410 415